## WHAT IS CLAIMED IS:

In a food for ictalurid catfish, and fish with similar feeding behavior, the improvement which comprises the addition of an effective amount of: (a) one or more of the free amino acids: L-alanine, L-arginine, and L-proline; or (b) a protein precursor of said amino acids, that upon the action of a proteolytic enzyme will produce said one or more amino acids, or a mixture of (a) and (b); wherein said effective amount is an amount which will release the snapping and biting response of the fish.

- 2. The food of claim 1 wherein the overall amount of the one or more free amino acids is up to about 5 wt.%.
- 3. The food of claim 2 wherein the overall amount of the one or more free amino acids is up to about 1 wt.%.
- 4. The food of claim 3 wherein up to about 0.1 wt.% of the total weight of the food is the free amino acid portion.
- 5. The food of claim 4 wherein all three of the free amino acids is present.
- 6. The food of claim 1 wherein the one or more free amino acids is present in an amount which will produce, when placed in a body of water, plumes having a concentration of one or more

of: at least about 0.001M L-alanine, at least about 0.001M L-proline, and at least about 0.0001M L-arginine.

- 7. The food of claim 6 wherein all three of the free amino acids is present.
- 8. A method for producing food for ictalurid catfish, and fish with similar feeding behavior, which method comprises incorporating into said food: (a) an effective amount of one or more of the free amino acids: L-alanine, L-arginine, and L-proline; or (b) a protein precursor and proteolytic enzyme which will produce one or more of said amino acids when placed in water, or a mixture of (a) and (b); wherein the effective amount is that which will release the snapping and biting response of the ictalurid catfish and fish with similar feeding behavior.
- 9. The method of claim 8 wherein the amount of said one or more free amino acids which is incorporated in the food is up to about 1 wt.%, based on the total weight of the food plus added amino acids.
- 10. The method of claim 9 wherein the amount of said one or more free amino acids which is incorporated in the food is up to about 0.1 wt.%, based on the total weight of the food plus added amino acids.

11. The method of claim 10 wherein the amount of said one or more free amino acids which is incorporated in the food is from about 0.1 wt.% to 0.5 wt.%, based on the total weight of the food plus added amino acids.

- 12. The method of claim 10 wherein the one or more free amino acids is present in an amount which will produce, when placed in a body of water, plumes having a concentration of one or more of: at least about 0.001M L-alanine, at least about 0.001M L-proline, and at least about 0.0001M L-arginine.
- 13. The method of claim 12 wherein all three of the free amino acids is present.